

FLEXICOKING at Esso Rotterdam

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TU Delft

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Esso Nederland BV
Flexicoker
Rotterdam Refinery



Summary

- Market demand and crude oil supply
- Location Flexicoker in refinery flowsheet
- Conversion : light products out of vacuum residu
- Flexicoking process description
 - Reactor
 - Heater
 - Gasifier
 - Coke transfer between vessels
- Reliability prevails over the last ton thruput



Market demand and crude oil supply

■ LPG/Gas

■ Nafta/Gasoline

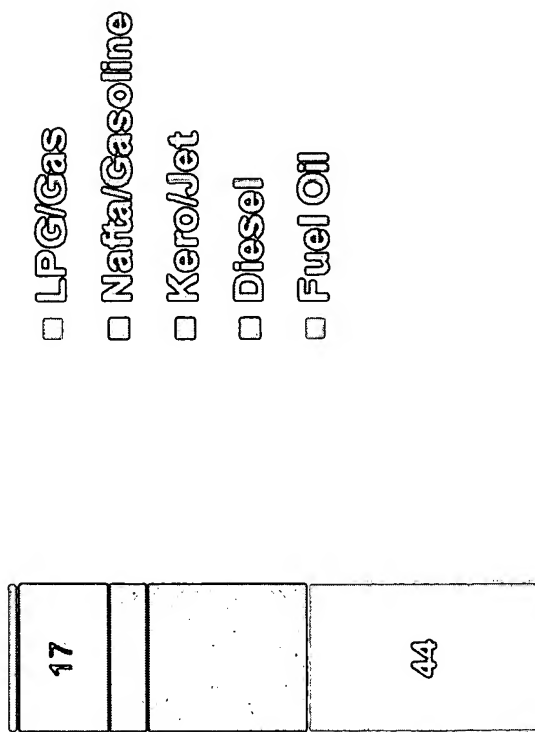
■ Kero/Jet

■ Diesel

■ Fuel Oil



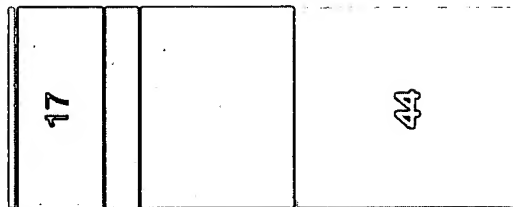
Market demand and crude oil supply



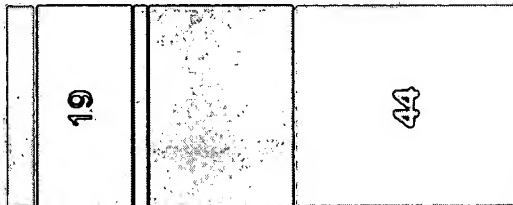
Arabian
Light



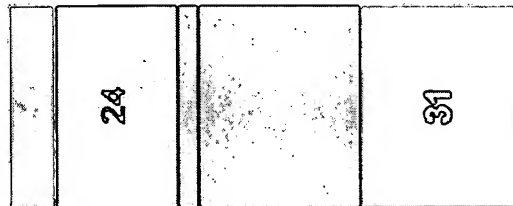
Market demand and crude oil supply



Arabian Light



1970



1985

- LPG/Gas
- Nafta/Gasoline
- Kero/Jet
- Diesel
- Fuel Oil



Market demand and crude oil supply

